



FROEHLING & ROBERTSON, INC. GEOTECHNICAL • ENVIRONMENTAL • MATERIALS ENGINEERS • LABORATORIES "OVER ONE HUNDRED YEARS OF SERVICE"

N.C.D.O.T. GEOTECHNICAL UNIT **BORING LOG**

OF THE			11	881												,		T 1 OF	1	
PROJECT NO). 3332°	1.1.1			ID.	B-38	77			COUNT	/ Na	sh				GEOLOG	IST C.			
SITE DESCRI	PTION	Bridge	No. 52	over	Turkey	/ Cree	ek on	SR 110	01 (Cla	aude Lev	vis Rd	.)						GROUNE	WATER (f	ft)
BORING NO.	B1-B		во	RING	LOC	ATIO	N 25	+56		OFF	SET (oft R	Т		ALIGN	MENT -L-		0 HR.	N/A*	
COLLAR ELE	V. 149	.4 ft	NORT	HING	727	,020				EAS	TING	2,2	52,31	6				24 HR.	N/A*	
TOTAL DEPT	H 42.7	ft	DRILL	. MAC	CHINE	CM	E 550		DRI	LL MET	HOD	3.25	"ID	HSA	/NQ3 Coi	e	HAMN	IER TYPE	Automatic	
DATE START	ED 10/	19/04			CON	IPLE	TED	10/20/	04	SUR	FACE	WA	TER	DEP	TH N/A					
ELEV. DEPTI	H BL	ow col	JNT			BLO	OWS P	ER FO	от		SAM	P. \		L		COU AN	ID BOCK	DESCRIPTION	\A!	
(ft) (ft)	0.5ft	0.5ft	0.5ft	P	20)	40	60 1	80	0 10	O NC	. /	моі	G		30IL AN	ID NOON	DESCRIPTION	′. •	
149.4		1			Ground Surface									149.4						
149.4 + 0.0	WOH	WOH	WOH	₩.	ЭΗ··							T	W		-		-ALLI	UVIAL-		
<u>†</u>	1			:\:								-			- -	Gray & br	own, silty	CLAY (A-6(8) trace coarse s), with	
144.4 + 5.0		3	3	:			. <i></i>	. <i></i> 			ee .	26 2	4.2%		-	iittie mie	saliu o	liace coalse s	anu.	
ł	2	"	3		6 · ·			. .	 		33-	-0/2	4.270		<u>.</u> -					
400 A F 12.2				::	\ :::				<i>.</i>						_					
139.4 10.0 	2	3	15	1::	: \	 8· · ·						l	w		138.4			0.000		1
Ŧ				l : :	T.							1		KIII	- 137.4 -		with son	rse SAND (A- ne gravel.	l-a), 	1
134.4 + 15.0			į											UU	134.2			RED ROCK- \-ARGILLITE.		1
1	60/0.2	7								60/0.2	'	-		511		-V	VEATHE	RED ROCK- red, soft to me	dium hard	
‡				: :								-		M	_			RGILLITE.	alam nara	
‡														17/	 128.1					:
‡				: :										 IOTT	120.1					
<u>±</u>				::								-			_	Gray, mo	derately	ALLINE ROCI severely weat	nered,	
ł				::											_	moderat	tely hard	META-ÁRGILI	JITE.	
Ŧ				::											<u></u>					
Ŧ				1::											_					
Ŧ				l : :											446.7					;
‡				1::								l		KIII	<u>- 116.7</u> -			RED ROCK-		
‡														ΤШ	114.2	Gray	, severely <u>META-A</u>	weathered, s RGILLITE.	οπ 	نسر
‡						•										-NOI	N-CRYST	ALLINE ROC	K-	
‡											RS	2				Gray, modera	ately seve	rely weathere	d, medium LLITE.	
‡						: :											,			
 	-	 	 	 ` `	· · ·	· ·					+	\dashv		F	- 100.7			Elevation 106.	7 ft in	
‡																NON-CRYST (META-ARGI		ROCK		
‡															-					
‡											l				-	NOTES:				
‡										•								k to natural gr strata break in		
‡											l				Γ	spoon at a	depth of	11.0' (elev. 138	3.4').	
+												-				depth of 12	.0' (elev.	der drilling at a 137.4').	i.	
ŧ												- 1			_	4) Coring beg elev. 134.2)		lepth of 15.2'		
Ŧ												- 1			-	•	•	asured due to	water	
Ŧ												- 1			-	introduced			water	
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SHEET 16 OF 29

Elev. (ft) 134.2	ION:	33321.1.1 Bridge No. 5: Nash Drill	2 over Tu	rkey Creek	I.D. NO.:	B-3877	CORE BORING REPORT BORING NO.: B1-B GEOLOGIST: Chris Baldwin			
Elev. (ft) 134.2	Depth (ft)	Nash Drill	2 over Tu	rkey Creek			BORNO NO. BIP	GEOLOGIST: Chris Baldwin		
Elev. (ft) 134.2	Depth (ft)	Nash Drill	2 0 0 1 1 1	incy Citca	on SP 110	ıl (Clande	senior de la serior dela serior dela serior de la serior dela serior de la serior dela serior de la serior dela	SENIOR DRILLER: Jim Gilchrist		
Elev. D. (ft) 134.2	Depth (ft)	Drill			COLDICATIO	1 (Oldda				
(ft) 134.2	(ft)	1 1				COLLAR	ELEVATION: 149.4 ft TOTAL DEPTH: 42.7 ft DRILLING ASSISTANT: Bi	II Smith		
(ft) 134.2	(ft)	1 1					,			
134.2		Rate	Run Length	REC (ft)	RQD (ft)	Sample	FIELD CLASSIFICATION AND REMARKS			
131.7	13.2	min./ft	(ft) 2.5	% 2.5/2.5	% 0.5/2.5	#	2 joints at 0° 1 joint at 30° 3 joints at 60°	134.2 ft (15.2 ft		
		1:37/2.5 ft	2.3	2.3/2.3	0.3/2.3		WR - 15.2 - 17.9 ft Gray, severely weathered, medium hard Meta-Argillite			
		3:39		100%	N/A		Very close to close fracture spacing.			
							1 joint at 10° 1 joint at 50° 1 joint at 80°			
	17.7	3:42					1 joint at 20° STRATA REC.=100% 1 joint at 25° STRATA RQD=N/A			
-	17.7	3:57	5.0	4.0/5.0	1.4/5.0		STRATA BREAK 1 joint at 0° 1 joint at 10°	131.5 ft (17.9 ft		
1							WR - 17.9 - 18.9 ft Gray, severely weathered, soft Meta-Argillite			
		4:04		80%	N/A		Very close fracture spacing. STRATA REC.=0% STRATA BREAK STRATA RQD=N/A	130.5 ft (18.9 ft		
		4:10					WR - 18.9 - 21.3 ft Gray, severely weathered, medium hard Meta-Argillite			
							Very close to close fracture spacing. 3 joints at 10° 2 joints at 20° 1 joint at 30°			
	,	4:07					1 joint at 0° STRATA REC.=100% 1 joint at 40° 1 joint at 80°	100 1 6 (01 2 6		
		4:05		•			STRATA BREAK STRATA RQD=N/A 1 joint at 90° 1 joint at 45°	128.1 ft (21.3 f		
126.7	22.7	4.03					1 joint at 80°			
	22.7	4:15	5.0	5.0/5.0	3.4/5.0		NCR - 21.3 - 32.7 ft Gray, moderately severely weathered, moderately hard Meta-Argillite			
		100	-	*****	(00)		Very close to moderately close fracture spacing.			
		4:07		100%	68%		3 joints at 20° 3 joints at 30°			
		4:20	1				1 joint at 40°			
							1 joint at 60°			
		4:18					2 joints at 70° STRATA REC.=100%			
		4:11					STRATA RQD=43%			
	27.7							e.		
121.7	27.7	4:27	5.0	5.0/5.0	0.6/5.0		3 joints at 0°	14		
		4:35		100%	12%		2 joints at 10°	2.5		
							2 joints at 20°			
		4:09					2 joints at 30° 1 joint at 35°			
		4:15					2 joints at 40°			
							2 joints at 60°			
		4:26					2 joints at 90°	11678/2076		
	32.7 32.7	4:07	5.0	2.5/5.0	0.9/5.0		STRATA BREAK	116.7 ft (32.7 f		
110.7	J2.,	4.07] 5.0	2.57510	0.5,0.0		WR - 32.7 - 35.2 ft Gray, severely weathered, soft Meta-Argillite			
		4:15		50%	N/A		Very close fracture spacing.			
		4.02	-				STRATA REC.=0% STRATA BREAK STRATA RQD=N/A	114.2 ft (35.2 f		
		4:03					STRATA BREAK STRATA RQD=N/A 4 joints at 0°	114.210(33.21		
		3:47	1	ĺ			1 joint at 5°			
]				NCR - 35.2 - 42.7 ft Gray, moderately severely weathered, medium to moderately hard Meta-Argillite			
		4:04					Very close to moderately close fracture spacing.			
	37.7 37.7	4:15	5.0	5.0/5.0	2.5/5.0	-	1 joint at 80°			
1111	27.17						4 joints at 0°			
		4:20		100%	50%		6 joints at 10° STRATA REC.=100%			
		1.07	-			1	1 joint at 20° STRATA RQD=45%			
		4:27				RS-2	1 joint at 30° 1 joint at 45° RS-2 39.0 - 39.3 ft qu=2,866 psi			
		4:09	1				2 joints at 60°			
			1				1 joint at 75°			
		4:15						10678/407		
106,7	42.7	1	<u> </u>	L		L	Coring Terminated at Elevation 106.7 ft	106.7 ft (42.7		
							NOTES:			
DRILLING CME - 550		IPMENT: ith automatic ha	mmer.							
HOLE AD	VANC	EMENT:		ne otom	are					
2. Cored usi		15.2 feet using 3 w/SICB and a				rom				